Use Attainability Analysis

for

WBID 1234 Monegaw Creek

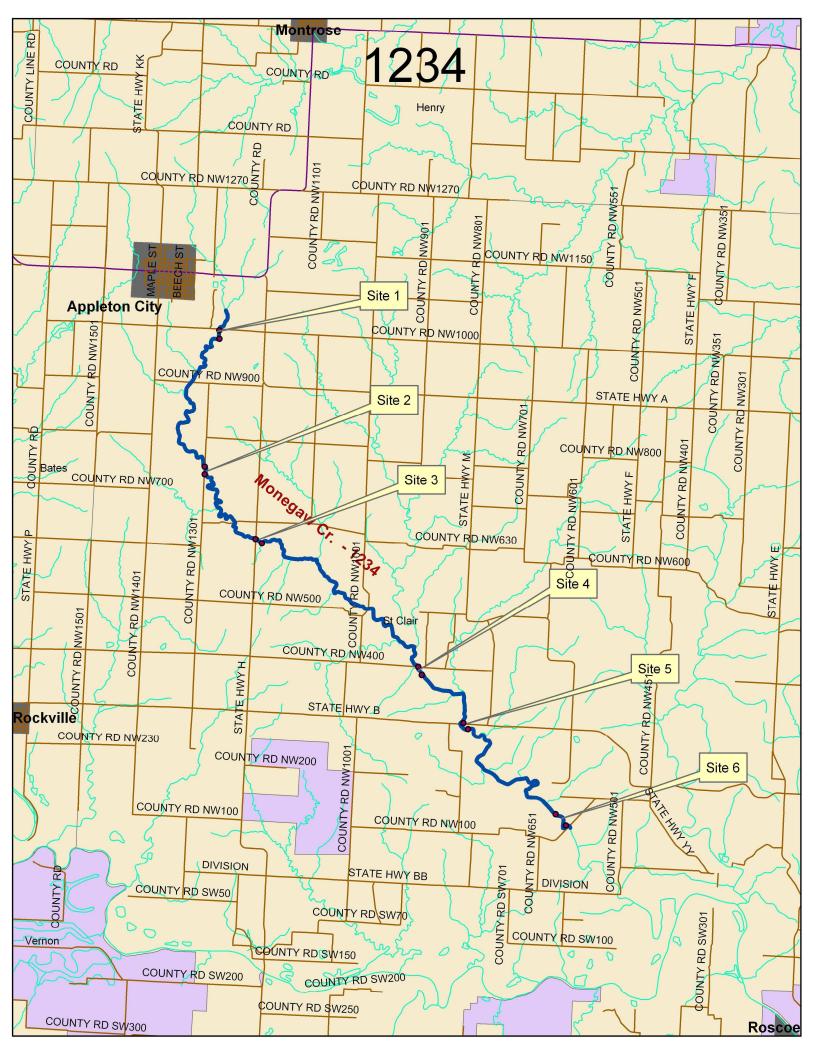
Submitted by SES Inc.

to Missouri Department of Natural Resources Water Protection Program

Date received: November 14, 2007

#### Data Sheet A - Water Body Identification

I. Water Body Information (For water body being	g surveyed)
Water Body Name (from USGS 7.5' quad):	
Monegaw Creek	
Missouri Water Body Identification (WBID) Number:	
1234	
8 digit HUC code:	County:
10290105	St. Clair
Upstream Legal Description (from Table H):	
T39N R28W Sec 4	
Downstream Legal Description (from Table H):	
Y38N R27W Sec 22	
Number of sites evaluated:	
6	
List all site numbers, listed consequently upstream to do	wnstream:
1,2,3,4,5,6	
Site Locations Map(s): Attach a map of the entire segr	nent with assessment sites clearly labeled.
Mark any other items that may be of interest.	
II. Facility Information (list all permitted discharges to t	he water body segment)
Facility Name(s) and Permit Number(s):	
Appleton City WWTF	
MO 0021105	
III. UAA Surveyor (please print legibly)	
Name of Surveyor:	Telephone Number:
Aaron Ball	(913)307-0046
Organization/Employer:	
SES, Inc.	
Please verify that you have completed all sections, or	checked all applicable boxes, and that the form is
complete.	
Signed: Aaron Ball	Date: 11.09.07



WBID#	1234
Site #	1

Date & Time:		10/25/07	14:45	Site Location	Site Location Description (e.g. road crossing):				
Personnel:		Aaron Ball, Drew D	odson		CR 1000				
Current Weat	her Con	ditions: clear		Facility Nar	me:	Appleton City	WWTF		
Weather cond	litions fo	or the past 10 days:	2.17 inches	Permit Num	nber:	MO 0021105			
Drought cond	itions?: I	No drought ☑ ; Pha	se I □ ; Phase	Ⅱ 🛘 ; Phas	e III □ ; PI	nase IV □ ; Ur	nknown 🗆		
Site Location	١٠								
		(Universal Transver	se Mercator Pr	rojection, In	Meters				
Site 01	Easting	g (UTM X):	Northing (UTN	И Y):		Horizontal Ac	ccuracy:	Meters	
0411357			4225713					5.1	
Site 11	Easting	g (UTM X):	Northing (UTN	<b>Л</b> Y):		Horizontal Ac	ccuracy:	Meters	
	041133	36	4225468		-	8.4			
	071100	<del>70</del>	7220100					т. т	
Photos:	•		<del>-</del>	,		1	1		
Photo ID#	ı	Photo Purpose	Photo ID#:	Photo Purpose		Photo ID#:	Photo Pu	ırpose	
34	Upstrea	am	35	Downstream					
Photo ID#	F	Photo Purpose	Photo ID#	Photo Purpose		Photo ID#	Photo Pu	ırpose	
Photo ID#	F	Photo Purpose	Photo ID#	Photo Purpose		Photo ID#	Photo Pu	urpose	
Uses Observ	ed:								
☐ Swimming	1	☐ Skin diving	☐ SCUBA di	iving	☐ Tubin	g	☐ Water Skiir	ng	
☐ Wind surfi	ng	☐ Kayaking	☐ Boating		□ Wadir	ng	☐ Rafting		
☐ Hunting		☐ Trapping	☐ Fishing		✓ None	of the above	☐ Other:		
Describe:		, ,, ,					•		

WBID#	1234
Site #	1

Surrounding Condit			_	
☐ City/County parks	☐ playgrounds	☐ MDC conservation lands		☐ Rural Residential
□ Campgrounds	☐ State parks	□ National Forests	□ Nature trails	☐ Stairs/walkways
☐ Boating accesses		☐ No tresspass sign	☐ Steep Slopes	☐ Other:
Comments:				
none				
E 11				
Evidence of Human			T= 0 : 0"	l = 0
☑ Roads	☐ Foot path/prints	☐ Dock/platform	☐ Camping Sites	☐ Rope swings
☐ RV/ATV Tracks	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle	☐ Livestock watering
comments/other:				
none				
Substrate:				
Substrate: % Cobble	% Gravel	% Sand % Silt	% Mud/0	Clay % Bedrock
Substrate: % Cobble	% Gravel 60	% Sand % Silt 30	% Mud/0	-
				-
% Cobble				-
				-
% Cobble  Aquatic Vegatation:				-
% Cobble  Aquatic Vegatation:				-
% Cobble  Aquatic Vegatation:				-
% Cobble  Aquatic Vegatation:				•
% Cobble  Aquatic Vegatation:	60			-
% Cobble  Aquatic Vegatation: none	60		10	•
% Cobble  Aquatic Vegatation: none  Water Characteristic	60 es:	30	nical ☑ I	
% Cobble  Aquatic Vegatation: none  Water Characteristic Odor:	60 es: □ Sewage	□ Musky □ Cher	nical ☑ I sediments ☑ I	None □ Other:

#### Field Data Sheets for Recreational Use Stream Surveys

Additional Stream W	iorphology: (Record isolate	ed pools or other featu	res identified during	tne survey that may suppo	ort recreational uses)
Channel Feature	Distance from	Width (m)	Length (m)	Median Depth (m)	Max Depth (m
	access location (m)				

	/				
	cord any additional comments	here.)			
none	_				
Please verify that yo complete.	u have completed all s	ections, checked	d all applicable	boxes, and that the	form is
Surveyor's Signature:	Aaron Ball		Date of Survey:	10/25/2007	
Organization:	SES, Inc.		Position:	Field Team Leader	

																		Disso	lved Ox	ygen		
	Waterbo	ody ID:	1234			Site #:	1									Date:	10/25/07	7		Time:	14:45	
	Estimate	ed Chanr	nel Incisi	on:	2.0	(m) (hei	ight betw	een low b	ank wid	th and wa	ater)					Di	ssolved (	Oxygen:		15.5	(mg/L)	
	GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM)  1 UTM X: 0411357 UTM Y: 4225713 +/- 5.1 (meters) Dissolved Oxygen: (% sat)																					
		UTM X	<u>:                                    </u>	041135	<u>/</u>							+/-	5.1 8.4	(meters)	•	Dı	ssolved (	Oxygen:			(% sat)	
		011111	<u></u>	0.1100		•	0111111				•				•		Specifi	ic Cond:			(µS/cm)	
							7	(meters)		ength of	-	_		150	(meters)	***	, T			10.5	(0.00)	
	(10 dete	rmne Le	ngth of I	Reacn)					(2	20x avera	ige strear	n widtn)				wa	ter 1 emp	oerature:		10.5	(°C)	
	Fiel	d Staff:				Aaron E	Ball, Drev	v Dodson						•								
										Tra	nsect C	ross-Se	ction									
	0	1	0	)2	0	3	(	)4	O	)5	0	16		07	0	8	0	9	1	0	11	1
Station	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.7	0.50	0.4	0.05	0.2	0.05	0.5	0.40	0.5	0.20	0.7	0.20	0.6	0.15	0.5	0.20	0.4	0.45	0.3	0.05	0.6	0.25
2	1.4	0.35	0.8	0.05	0.4		1.0	0.50			1.4		1.2	0.20	1.0		0.8	0.60	0.6	0.25	1.2	0.35
3	2.1	0.35	1.2		0.6		1.5	0.60	1.5		2.1		1.8	0.30	1.5		1.2	0.60	0.9	0.25	1.8	0.30
4	2.8	0.35	1.6					0.70					2.4	0.40			1.6	0.60		0.25	2.4	0.50
5	3.5	0.30	2.0	0.15	1.0	0.10	2.5	0.70	2.5	0.70	3.5	0.45	3.0	0.40	2.5	0.60	2.0	0.45	1.5	0.25	3.0	0.50
6	4.2	0.30	2.4	0.10	1.2	0.10	3.0	0.60	3.0	0.70	4.2	0.45	3.6	0.55	3.0	0.55	2.4	0.40	1.8	0.35	3.6	0.35
7	4.9	0.25	2.8	0.00	1.4	0.10	3.5	0.50	3.5	0.50	4.9	0.50	4.2	0.60	3.5	0.50	2.8	0.40	2.1	0.25	4.2	0.30
8	5.6	0.30	3.2	0.05	1.6	0.15	4.0	0.40	4.0	0.30	5.6	0.45	4.8	0.50	4.0	0.45	3.2	0.15	2.4	0.20	4.8	0.20
9	6.3	0.20	3.6	0.10	1.8	0.10	4.5	0.25	4.5	0.15	6.3	0.25	5.4	0.30	4.5	0.10	3.6	0.10	2.7	0.10	5.4	0.15
ight Bank	7.0	0.00	4.0	0.00	2.0	0.00	5.0	0.00	5.0	0.00	7.0	0.00	6.0	0.00	5.0	0.00	4.0	0.00	3.0	0.00	6.0	0.00
eature Type																			,		•	
iffle, run, or pool	_	ool		fle		ool	po	ol	po	ol	po	ol	po	ol								

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

0.9 MAXIMUM

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

0.1 MEDIAN

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

Signed: Aaron Ball Date: 10/25/07
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WBID#	1234
Site #	2

Date & Time:		10/25/07	14:05	Site Location	Site Location Description (e.g. road crossing):				
Personnel:		Aaron Ball, Drew D	odson		CR 1301				
Current Weath	her Cond	ditions: clear		Facility Nar	me:	Appleton City	WWTF		
Weather cond	litions fo	r the past 10 days:	2.17 inches	Permit Nun	nber:	MO 0021105			
Drought condi	itions?: N	No drought ☑ ; Pha	se I □ ; Phase	II □ ; Phas	e III □ ; P	hase IV □ ; Ur	nknown 🗆		
Site Location									
Location Coor	dinates	(Universal Transver	se Mercator Pr	rojection, In	Meters				
Site 01	Easting	ı (UTM X):	Northing (UTN	И Y):		Horizontal Ac	ccuracy: Meters		
	041092	?6	4221676				6.3		
Site 11	Easting	ı (UTM X):	Northing (UTN	И Y):		Horizontal Ac	curacy: Meters		
	041092	 27	4221455	4221455 7.8					
			1						
Photos:	1		<del>                                     </del>	<u> </u>			Γ		
Photo ID#	F	Photo Purpose	Photo ID#:	Photo Purpose		Photo ID#:	Photo Purpose		
32	Upstrea	am	33	Downstream					
51 15/1	_		51 / 15//	DI 4 D		51 1 10/1			
Photo ID#	F	Photo Purpose	Photo ID#	Photo Purpose		Photo ID#	Photo Purpose		
Photo ID#	F	Photo Purpose	Photo ID#	Photo Purpose		Photo ID#	Photo Purpose		
1 11000 12	<u> </u>	noto i diposo	1 11000 12	1 11000	dipood	1 11000 12	1 11000 1 0110000		
	<u>.                                    </u>								
Llaca Obcomu	. ام								
Uses Observed:					□ Tubia		□ Matan Chiina		
☐ Swimming		☐ Skin diving	☐ SCUBA di	iving	☐ Tubin	•	☐ Water Skiing		
☐ Wind surfi	ng	☐ Kayaking	☐ Boating		☐ Wadir		☐ Rafting		
☐ Hunting		☐ Trapping	☐ Fishing		✓ None	of the above	☐ Other:		
Describe:									

WBID#	1234
Site #	2

Surrounding Condition	ons:				
☐ City/County parks	☐ playgrounds	☐ MDC conservation	on lands	☐ Urban areas	☐ Rural Residential
☐ Campgrounds	☐ State parks	□ National Forests	;	□ Nature trails	☐ Stairs/walkways
☐ Boating accesses		☐ No tresspass sig	jn	☐ Steep Slopes	☐ Other:
Comments:					
Evidence of Human U  ☑ Roads	Use:  ☐ Foot path/prints	☐ Dock/platform		☐ Camping Sites	∏ Popo swings
	☐ Fire pit/ring	☐ NPDES Discharg		☐ Fishing Tackle	<ul><li>☐ Rope swings</li><li>☑ Livestock watering</li></ul>
comments/other:	□ Fire piviling	LI INFUEO DISCHAIS	je į	LI FISHING TACKIE	E Livestock watering
Substrate:					
% Cobble	% Gravel 30	% Sand	% Silt 70	% Mud/0	Clay % Bedrock
Aquatic Vegatation:					
none					
Water Characteristics			Ob		T 0#
Odor:	☐ Sewage	□ Musky	☐ Chemi		None
Color:	☐ Clear	☑Green	□ Gray		Milky
Bottom Deposit:	☐ Sludge ☐ Oil	☐ Solids ☐ Scum			None ☐ Other: None ☐ Other:
Surface Deposit:		LI SCUIII	⊔ roam	<u> </u>	ione 🗀 Other:

Organization: SES, Inc.

#### Field Data Sheets for Recreational Use Stream Surveys

### **Data Sheet B - Site Characterization (continued)**

Additional Stream	Morphology:	(Record isolated pools	or other features identified durir	g the survey that ma	v support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)
			•		
<b>Comments:</b> (Please re none	cord any additional comments h	nere.)			
Please verify that your complete.	ou have completed all s	ections, checke	d all applicable	boxes, and that the f	orm is
Surveyor's Signature:	Aaron Ball		_Date of Survey:	10/25/2007	

Position: Field Team Leader

																		Disso	lved Ox	xygen		
	Waterbo	ody ID:	1234			Site #:	2									Date:	10/25/0	7		Time:	14:05	
	Estimat	ed Chanr	nel Incisi	on:	2.0	(m) (hei	ght betw	een low b	ank widt	th and wa	iter)					Di	issolved	Oxygen:		18.2	(mg/L)	
		cation - l UTM X		UTM X) 0410926				izontal Ac			(EPE / P	DOP / FO	OM) 6.3	(matars)				Oxygen:			(% sat)	
		UTM X		0410927		· 1	UTM Y:		4221455	5		+/-	7.8	(meters)		Di						
		e Stream					4	(meters)		ength of				150	(meters)			ic Cond:				
	(To dete	ermne Le	ength of I	Reach)					(2	0x avera	ge strear	n width)				Wa	iter Temp	perature:		11.1	(°C)	
	Fie	ld Staff:				Aaron E	Ball, Drev	v Dodson						<u>-</u>								
										Tra	nsect C	ross-Se	ction									
	0	)1	0	2	0	13	(	)4	0	15	0	6	(	07	08	8	0	9	1	0	1	1
Station	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
eft Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.2	0.05	0.5	0.25	0.6	0.70	0.6	0.10	0.5	0.10	0.2	0.05	0.6	0.05	0.6	0.20	0.4	0.20	0.2	0.05	0.2	0.05
2	0.4	0.10	1.0	0.30	1.2	0.80	1.2	0.20	1.0	0.25	0.4	0.05	1.2	0.20	1.2	0.50	0.8	0.30	0.4	0.10	0.4	0.05
3	0.6				1.8			0.20											0.6		0.6	
4	0.8				2.4			0.20	2.0										0.8		0.8	0.10
5	1.0				3.0				3.0						3.0			0.40	1.0		1.0	0.10
7	1.4				4.2			0.25	3.5		1.4			0.20	4.2							0.10
8	1.6	0.20			4.8			0.10			1.6		4.8	0.10	4.8			0.20	1.6		1.6	0.10
9	1.8	0.20	4.5	0.15	5.4	0.25	5.4	0.05	4.5	0.15	1.8	0.05	5.4	0.10	5.4	0.20	3.6	0.10	1.8	0.10	1.8	0.05
ight Bank	2.0	0.00	5.0	0.00	6.0	0.00	6.0	0.00	5.0	0.00	2.0	0.00	6.0	0.00	6.0	0.00	4.0	0.00	2.0	0.00	2.0	0.00
eature Type ffle, run, or pool	рс	ool	рс	ool	рс	ool	pe	ool	рс	ool	rif	fle	р	ool	ро	ol	рс	ool	po	ol	rif	fle

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

Signed:	Aaron Ball	Date:	10/25/07	

WBID#	1234
Site #	3

Date & Time:		10/25/07	13:15	Site Location	on Descrip	tion (e.g. road	crossing):
Personnel:		Aaron Ball, Drew D	odson		Highway I	Η	
Current Weat	her Cond	ditions: clear		Facility Nar	me:	Appleton City	WWTF
Weather cond	litions fo	r the past 10 days:	2.17 inches	Permit Nun	nber:	MO 0021105	
Drought cond	itions?: 1	No drought ☑ ; Pha	se I □ ; Phase	II □ ; Phas	e <mark>III □ ; Pl</mark>	nase IV □ ; Ur	nknown 🗆
Site Location	1:						
Location Cool	dinates	(Universal Transver	se Mercator Pr	rojection, In	Meters		
Site 01	Easting	ı (UTM X):	Northing (UTN	<b>И Y</b> ):		Horizontal Ac	curacy: Meters
	041242	24	4219531				8.1
Site 11	Easting	ı (UTM X):	Northing (UTN	И <u>Y</u> ):		Horizontal Ac	curacy: Meters
	041261	9	4219405	<u> </u>			7.2
Photos:			Т	T		T	I
Photo ID#	F	Photo Purpose	Photo ID#:	Photo F	Purpose	Photo ID#:	Photo Purpose
30	Upstrea	am	31	Downstrea	m		
Photo ID#	P	Photo Purpose	Photo ID#	Photo F	Purpose	Photo ID#	Photo Purpose
Photo ID#	P	Photo Purpose	Photo ID#	Photo F	Purpose	Photo ID#	Photo Purpose
Uses Observ	ed:						
☐ Swimming	J	☐ Skin diving	☐ SCUBA di	iving	☐ Tubing	g	☐ Water Skiing
☐ Wind surfi	ng	☐ Kayaking	☐ Boating		□ Wadir	ng	□ Rafting
☐ Hunting		☐ Trapping	☐ Fishing		✓ None	of the above	☐ Other:
Describe:							•

WBID#	1234
Site #	3

Surrounding Condition	ons:					
☐ City/County parks	☐ playgrounds	☐ MDC conservat	ion lands	☐ Urban areas	☐ Rural Resid	ential
☐ Campgrounds	☐ State parks	□ National Forests	3	□ Nature trails	☐ Stairs/walkv	vays
☐ Boating accesses	✓ Fence	☐ No tresspass sig	gn	☐ Steep Slopes	☐ Other:	
Comments:						
none						
Evidence of Human l	Use:					
☐ Roads	☐ Foot path/prints	·		☐ Camping Sites		
☐ RV/ATV Tracks	☐ Fire pit/ring	☐ NPDES Dischar	ge	☐ Fishing Tackle	☐ Livestock w	atering
comments/other:	none	<del></del>	<u></u>			
Substrate:						
% Cobble	% Gravel	% Sand	% Silt	% Mud	/Clay % B	edrock
	15		50	3	5	
Aquatic Vegatation:						
none						
Water Characteristics	s:					
Odor:	☐ Sewage	☐ Musky	☐ Chem	ical 🗹	None □ 0	Other:
Color:	☐ Clear	□Green	☐ Gray			Other:
Bottom Deposit:	☐ Sludge	☐ Solids				Other:
Surface Deposit:	□ Oil	☐ Scum	☐ Foam	V	None □ C	Other:

Organization: SES, Inc.

#### Field Data Sheets for Recreational Use Stream Surveys

### **Data Sheet B - Site Characterization (continued)**

	Additional Stream	Morphology:	(Record isolated pools or	other features identified during	the survey that may	support recreational uses)
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Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)
	association (III)				
Comments: (Please red	cord any additional comments h	nere.)			
none					
Please verify that yo complete.	u have completed all s	ections, checke	d all applicable	boxes, and that the	form is
Surveyor's Signature:	Aaron Ball		Date of Survey:	10/25/2007	
•					

Position: Field Team Leader

																		Disso	lved Ox	ygen		
			1234													Date:	10/25/07	7		Time:	13:15	
				•				een low b				DOD / E	22.6			Di	ssolved	Oxygen:		16.4	(mg/L)	
	01	cation - I UTM X UTM X	:	0412424 0412619	1		UTM Y:	izontal Ac	421953	1	•	DOP / FO +/- +/-	ЭМ) 8.1 7.2	(meters)		Di	ssolved	Oxygen:			(% sat)	
						-				ength of					(meters)		Specifi	ic Cond:			(µS/cm)	
			ngth of I				/	(meters)	•	20x avera	-	-		130	(meters)	Wa	ter Temp	perature:		9.5	(°C)	
	Fiel	d Staff:				Aaron E	Ball, Drev	v Dodson														
										Tra	nsect C	ross-Se	ction									
	0	1	0	2	0	3	(	)4	0	)5	0	6		07	08	8	0	9	10	ð	11	<u> </u>
Station	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.8	0.50	0.7	0.50	0.8	0.15	0.8	0.20	0.8	0.25	0.1	0.05	0.7	0.20	0.7	0.20	0.8	0.05	0.5	0.50	0.7	0.15
2	1.6	0.75	1.4	0.80	1.6	0.45	1.6	0.40	1.6	0.30	0.2	0.05	1.4	0.30	1.4	0.20	1.6	0.20	1.0	0.45	1.4	0.40
3	2.4	0.95	2.1	1.00	2.4	0.65	2.4	0.50	2.4	0.40	0.3	0.10	2.1	0.40	2.1	0.20	2.4	0.60	1.5	0.50	2.1	0.50
4	3.2	0.85	2.8	1.00	3.2	0.55	3.2	0.50	3.2	0.55	0.4	0.10	2.8	0.50	2.8	0.25	3.2	0.75	2.0	0.45	2.8	0.55
5	4.0	0.80	3.5	1.00	4.0	0.65	4.0	0.65	4.0	0.65	0.5	0.10	3.5	0.65	3.5	0.25	4.0	0.55	2.5	0.35	3.5	0.65
6	4.8	0.65	4.2	1.00	4.8	0.60	4.8	0.90	4.8	0.70	0.6	0.10	4.2	0.55	4.2	0.25	4.8	0.45	3.0	0.30	4.2	0.70
7	5.6	0.50	4.9	1.00	5.6	0.55	5.6	0.90	5.6	0.80	0.7	0.10	4.9	0.35	4.9	0.30	5.6	0.40	3.5	0.30	4.9	0.45
8	6.4	0.45	5.6	0.75	6.4	0.45	6.4	0.75	6.4	0.65	0.8	0.05	5.6	0.20	5.6	0.25	6.4	0.30	4.0	0.20	5.6	0.30
9	7.2	0.10	6.3	0.40	7.2	0.20	7.2	0.40	7.2	0.40	0.9	0.05	6.3	0.10	6.3	0.10	7.2	0.10	4.5	0.15	6.3	0.10
ight Bank	8.0	0.00	7.0	0.00	8.0	0.00	8.0	0.00	8.0	0.00	1.0	0.00	7.0	0.00	7.0	0.00	8.0	0.00	5.0	0.00	7.0	0.00
eature Type		1		1		va1		201		201		fle		o o 1	,	o.1	,,,	1	***	a1	***	~1
ffle, run, or pool	ро	ol	pc	100	pc	ool	l po	ool	po	ool	flI	116	р	ool	po	UI	рс	ool	po	UΙ	po	UI

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

Signed:	Aaron Ball	Date:	10/25/07
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WBID#	1234
Site #	4

Date & Time:		10/25/07	12:39	Site Location	on Descrip	tion (e.g. road	crossing):			
Personnel:		Aaron Ball, Drew D	odson		CR 400					
Current Weath	ner Cond	ditions: clear		Facility Nar	Facility Name: Appleton City WWTF					
Weather cond	litions fo	r the past 10 days:	2.17 inches	Permit Num	nber:	MO 0021105				
Drought condi	itions?: I	No drought ☑ ; Pha	se I □ ; Phase	II □ ; Phas	e III □ ; P	hase IV □ ; Ur	nknown 🗆			
Site Location	1:									
		(Universal Transver	se Mercator Pr	rojection, In	Meters					
Site 01	Easting	g (UTM X):	Northing (UTN	<b>Л</b> Y):		Horizontal Ac	curacy: M	leters		
	041724	3	4215746				5.4			
Site 11	Easting	g (UTM X):	Northing (UTN	VI Y):		Horizontal Ac	curacy: M	leters		
	041734		4215495				6.3			
	011.0	<u> </u>	12.0.00				<u> </u>			
Photos:			1	T		1	Г			
Photo ID#	F	Photo Purpose	Photo ID#:	Photo ID#: Photo Purpose			Photo Purpose			
28	Upstrea	am	29	Downstrear	m					
Photo ID#	P	Photo Purpose	Photo ID#	Photo Purpose		Photo ID#	Photo Purpose			
Photo ID#	P	Photo Purpose	Photo ID#	Photo F	Purpose	Photo ID#	Photo Purpose			
Uses Observ	ed:									
☐ Swimming	J	☐ Skin diving	☐ SCUBA di	iving	☐ Tubin	g	☐ Water Skiing			
□ Wind surfi	ng	☐ Kayaking	☐ Boating		□ Wadir	ng	☐ Rafting			
☐ Hunting		☐ Trapping	☐ Fishing		✓ None of the above		☐ Other:			
Describe:			<u>,                                    </u>							

WBID#	1234
Site #	4

Surrounding Condition	ons:				
☐ City/County parks	□ playgrounds	☐ MDC conservati	ion lands	☐ Urban areas	☐ Rural Residential
☐ Campgrounds	☐ State parks	□ National Forests	3	☐ Nature trails	☐ Stairs/walkways
☐ Boating accesses	☐ Fence	☐ No tresspass sig	gn	☐ Steep Slopes	☐ Other:
Comments: <b>none</b>					
Evidence of Human L		□ Dock/platform		□ Comping Sitos	□ Pana awinge
☐ Roads ☐ RV/ATV Tracks	☐ Foot path/prints ☐ Fire pit/ring	☐ NPDES Discharg		☐ Camping Sites☐ Fishing Tackle☐	☐ Rope swings ☐ Livestock watering
comments/other:	none	LI NYDES DISCHAL	je ∣	LI FISTIIIIY I AUNIC	LI LIVESTOCK WATERING
Substrate:					
% Cobble	% Gravel 70	% Sand	% Silt 30	% Mud/0	Clay % Bedrock
Aquatic Vegatation:					
none					
Water Characteristic	s:				
Odor:	☐ Sewage	☐ Musky	☐ Chemi		None ☐ Other:
Color:	☐ Clear	□Green	☐ Gray		Milky ☐ Other:
Bottom Deposit:	□ Sludge	□ Solids	☑ Fine se		None
Surface Deposit:	□ Oil	☐ Scum	☐ Foam	⊻N	None ☐ Other:

Organization: SES, Inc.

#### Field Data Sheets for Recreational Use Stream Surveys

#### **Data Sheet B - Site Characterization (continued)**

Additional Stream N	Morpho	logy:	(Record isolated	pools or other f	eatures identified of	luring the surve	y that may	support recreational uses)
---------------------	--------	-------	------------------	------------------	-----------------------	------------------	------------	----------------------------

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)
	access location (III)				
			<u> </u>		<u> </u>
omments: (Please re	cord any additional comments	here )			
ne	oora arry additional comments	11010.)			
	ou have completed all s	ections, checke	d all applicable	boxes, and that the	form is
lease verify that younglete.		ections, checke		boxes, and that the 10/25/2007	form is

Position: Field Team Leader

																		Disso	lved Ox	ygen		
	Waterbo	ody ID:	1234			Site #:	4									Date:	10/25/07	,		Time:	12:37	
	Estimate	ed Chanr	nel Incisi	on:	3.0	(m) (hei	ight betw	een low b	ank wid	th and wa	iter)					Di	issolved (	Oxygen:		17.7	(mg/L)	
		cation - I UTM X		UTM X) 0417243		-	Y), Hor UTM Y:	izontal Ac	curacy I 4215740		,		OM) 5.4	(meters)			ssolved (				(% sat)	
		UTM X		0417341								+/-	6.3	(meters)	•	<i>D</i> .						
			Width:				6	(meters)	•	ength of	-	_		150	(meters)						(µS/cm)	
	(To dete	ermne Le	ngth of F	Reach)					(2	0x avera	ge strear	n width)				Wa	ter Temp	erature:		14	(°C)	
	Fiel	ld Staff:				Aaron E	Ball, Drev	w Dodson						-								
										Tra	nsect C	ross-Se	ction									
	0	1	0	2	0	13		04	0	5	0	6		07	08	3	0:	9	1	0	11	1
Station	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
eft Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.5	0.15	0.8	0.25	0.5	0.10	0.3	0.10	0.4	0.05	0.8	0.20	0.8	0.25	0.8	0.10	0.6	0.10	0.4	0.20	0.8	0.20
2	1.0	0.30	1.6	0.50	1.0	0.25	0.6	0.15	0.8	0.05	1.6	0.60	1.6	0.20	1.6	0.00	1.2	0.15	0.8	0.20	1.6	0.50
3	1.5	0.30	2.4	0.60	1.5	0.30	0.9	0.20	1.2	0.10	2.4	0.75	2.4	0.30	2.4	0.05	1.8	0.15	1.2	0.35	2.4	0.50
4	2.0	0.30	3.2	0.65	2.0	0.30	1.2	0.20	1.6	0.10	3.2	0.80	3.2	0.30	3.2	0.05	2.4	0.20	1.6	0.45	3.2	0.50
5	2.5	0.30	4.0	0.60	2.5	0.35	1.5	0.20	2.0	0.10	4.0	0.90	4.0	0.45	4.0	0.05	3.0	0.25	2.0	0.50	4.0	0.60
6	3.0	0.35	4.8	0.60	3.0	0.30	1.8	0.20	2.4	0.10	4.8	0.85	4.8	0.50	4.8	0.10	3.6	0.30	2.4	0.45	4.8	0.65
7	3.5	0.35	5.6	0.55	3.5	0.40	2.1	0.25	2.8	0.10	5.6	0.70	5.6	0.65	5.6	0.10	4.2	0.25	2.8		5.6	0.60
8	4.0		6.4		4.0			0.20					6.4	0.65	6.4	0.05	4.8	0.25	3.2			0.60
9	4.5		7.2		4.5			0.10	3.6				7.2	0.35	7.2	0.05	5.4	0.15	3.6	0.10	7.2	0.25
ight Bank	5.0	0.00	8.0	0.00	5.0	0.00	3.0	0.00	4.0	0.00	8.0	0.00	8.0	0.00	8.0	0.00	6.0	0.00	4.0	0.00	8.0	0.00
eature Type  ffle, run, or pool	po	ool	pc	ool	pc	ool	ne	ool	rit	fle	pc	ool	n	ool	riff	le	po	ol	ро	ol	po	ol

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

Signed: Aaron Ball Date: 10/25/07
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WBID#	1234
Site #	5

Date & Time:		10/25/07	11:41	Site Location	Site Location Description (e.g. road crossing):					
Personnel:		Aaron Ball, Drew D	odson		Highway I	3				
Current Weatl	her Cond	ditions: clear		Facility Nar	me:	Appleton City	WWTF			
Weather cond	litions fo	r the past 10 days:	2.17 inches	Permit Num	nber:	MO 0021105				
Drought cond	itions?: N	No drought ☑ ; Pha	se I □ ; Phase	II □ ; Phas	e <mark>III □ ; PI</mark>	nase IV □ ; Ur	nknown 🗆			
Site Location	1:									
		(Universal Transver	se Mercator Pr	ojection, In	Meters					
Site 01	Easting	(UTM X):	Northing (UTN	Л Y):		Horizontal Ac	curacy:	Meters		
	041857	8	4214089					4.5		
Site 11	Easting	(UTM X):	Northing (UTN	<u></u>		Horizontal Ac	curacy:	Meters		
	041871	4	4213914					7.2		
		<u>. ·</u>	<u> </u>					<u> </u>		
Photos:	Т		T	Π		T	1			
Photo ID#	F	Photo Purpose	Photo ID#:	Photo F	Purpose	Photo ID#:	Photo Pi	ırpose		
26	Upstrea	am	27	Downstrear	m					
Photo ID#	P	Photo Purpose	Photo ID#	Photo Purpose		Photo ID#	Photo Pu	ırpose		
Photo ID#	P	Photo Purpose	Photo ID#	Photo F	Purpose	Photo ID#	Photo Pu	ırpose		
Uses Observ	ed:									
☐ Swimming	<u></u>	☐ Skin diving	☐ SCUBA di	iving	☐ Tubin	g	☐ Water Skiir	ng		
☐ Wind surfi	ing	☐ Kayaking	☐ Boating		□ Wadir	ng	☐ Rafting			
☐ Hunting		☐ Trapping	☐ Fishing		✓ None	of the above	☐ Other:			
Describe:					•					

WBID#	1234
Site #	5

Surrounding Conditi		T = 3.5 a		-	· = = · · = · · · · · · ·
☐ City/County parks	□ playgrounds	☐ MDC conservat		rban areas	☐ Rural Residential
□ Campgrounds	☐ State parks	□ National Forest		ture trails	☐ Stairs/walkways
☐ Boating accesses		☐ No tresspass si	gn □ Ste	eep Slopes	☐ Other:
Comments:					
none					
Evidence of Human	Hoo				
□ Roads		☐ Dock/platform	IΠCo	mning Citos	□ Dono outingo
☐ RV/ATV Tracks	☐ Foot path/prints ☐ Fire pit/ring	☐ NPDES Dischar		mping Sites shing Tackle	☐ Rope swings ☐ Livestock watering
comments/other:	none	I INPUES DISCITAL	ge   L Fis	stillig rackle	Livestock watering
comments/otner:	none				
Substrate:					
% Cobble	% Gravel	% Sand	% Silt	% Mud/0	Clay % Bedrock
	60			40	•
<u>,                                    </u>					
<b>Aquatic Vegatation:</b>					
none					
Water Characteristic					
Odor:	☐ Sewage	☐ Musky	☐ Chemical		None ☐ Other:
Color:	☐ Clear	□Green	☐ Gray		Milky ☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☐ Fine sedime		None
Surface Deposit:	□ Oil	☐ Scum	☐ Foam	✓N	lone ☐ Other:

Organization: SES, Inc.

#### Field Data Sheets for Recreational Use Stream Surveys

### **Data Sheet B - Site Characterization (continued)**

Additional Stream Mo	rphology:	(Record isolated pools or	other features identified during	g the survey that may	support recreational uses)

	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)
	` /				
omments: (Please red	cord any additional comments	here.)			
ne	era any additional comments				
ease verify that vo	u have completed all s	ections. checke	ed all applicable	boxes, and that the	form is
	u have completed all s	ections, checke	ed all applicable	boxes, and that the	form is
	u have completed all s	ections, checke	ed all applicable	boxes, and that the	form is
ease verify that yo omplete. erveyor's Signature:		ections, checke	ed all applicable  Date of Survey:		form is

Position: Field Team Leader

																		Disso	lved Ox	ygen		
	Waterbo	ody ID:	1234		•	Site #:	5		•							Date:	10/25/07			Time:	11:41	
	Estimat	ed Chanr	nel Incisi	on:	3.0	(m) (hei	ght betw	een low b	ank wid	th and wa	iter)					Di	ssolved (	Oxygen:		13.5	(mg/L)	
		cation - l		UTM X) 0418578			Y), Hor UTM Y:	izontal Ac	curacy I 4214089		(EPE / P	DOP / FO	OM) 4.5	(meters)		Dissolved Oxygen: (% sat)						
		UTM X		0418714								+/-	7.2	(meters)		Specific Cond: (µS/cm)						
	Average							(meters)		Specific	c Cond:			(μS/cm)								
	(To dete	o determne Length of Reach) (20x average stream width)							Wa	ter Temp	erature:		10.7	(°C)								
	Fie	Field Staff: Aaron Ball, Drew Dodson																				
										Tra	nsect C	ross-Se	ction									
	(	)1	0	2	0	3	(	)4	0	)5	0	6	(	07	08	3	09	)	1	ð	11	<u> </u>
Station	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
eft Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.8	0.40	0.9	0.70	0.8	0.30	0.9	0.40	0.7	0.20	0.3	0.25	0.9	0.25	0.6	0.20	0.2	0.10	0.7	0.30	0.5	0.10
2	1.6	0.70	1.8	0.90	1.6	0.40	1.8	0.55	1.4	0.30	0.6	0.50	1.8	0.65	1.2	0.40	0.4	0.10	1.4	0.50	1.0	0.30
3	2.4	0.90	2.7	1.00	2.4	0.45	2.7	0.40	2.1	0.35	0.9	0.70	2.7	1.00	1.8	0.40	0.6	0.20	2.1	0.55	1.5	0.40
2	3.2	1.00	3.6	1.00	3.2	0.40	3.6	0.30	2.8	0.40	1.2	0.60	3.6	1.00	2.4	0.30	0.8	0.25	2.8	0.95	2.0	0.60
4	4.0				4.0			0.30							3.0		1.0	0.30	3.5	0.90		0.70
(	4.8				4.8			0.25			1.8				3.6	0.45	1.2	0.40	4.2	0.70		0.80
	5.6							0.35						1.00	4.2	0.55	1.4	0.35	4.9			0.65
3	7.2				7.2			0.40			2.4		7.2 8.1	0.80	4.8 5.4	0.35	1.6 1.8	0.10	5.6 6.3	0.40		0.55
ight Bank		0.00	9.0	0.00	8.0	0.00	9.0	0.00	7.0	0.00	3.0	0.00	9.0	0.00	6.0	0.00	2.0	0.00	7.0	0.00	5.0	0.00
eature Type		0.00	7.0	0.00	0.0	0.00	7.0	0.00	,	0.00	2.0	0.00	7.0	0.00	0.0	5.55	2.0	3.00	,	3.00	2.0	0.00
ffle, run, or poo	ı po	ool	po	ool	pc	ool	p	ool	po	ool	po	ool	р	ool	po	ol	po	ol	po	ol	poo	ol

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

	Signed: Aaro	on Ball	Date:	10/25/07	
--	--------------	---------	-------	----------	--

WBID#	1234
Site #	6

Date & Time:		10/25/07	10:50	Site Location	on Descrip	tion (e.g. road	crossing):	
Personnel:		Aaron Ball, Drew D	odson		CR 100			
Current Weat	her Con	ditions: clear		Facility Nar	me:	Appleton City	WWTF	
Weather cond	litions fo	or the past 10 days:	2.17 inches	Permit Nun	nber:	MO 0021105		
Drought cond	itions?:	No drought ☑ ; Pha	se I □ ; Phase	II □ ; Phas	e III □ ; Pl	nase IV □ ; Ur	nknown 🗆	
Site Location	٠.							
		(Universal Transver	se Mercator Pr	rojection, In	Meters			
Site 01	Easting	g (UTM X):	Northing (UTN	И Y):		Horizontal Ac	curacy:	Meters
	042130	)8	4211385					5.1
Site 11	Easting	g (UTM X):	Northing (UTN	М Y):		Horizontal Ac	ccuracy:	Meters
	042160	)6	4211051				-	5.1
	0 12 10	70	121100.					0.1
Photos:			<del></del>	T		1	ī	
Photo ID#	F	Photo Purpose	Photo ID#:	Photo F	Purpose	Photo ID#:	Photo Pu	rpose
24	Downs	tream	25	Upstream				
Photo ID#	F	Photo Purpose	Photo ID#	Photo Purpose		Photo ID#	Photo Pu	rpose
Photo ID#	F	Photo Purpose	Photo ID#	Photo F	Purpose	Photo ID#	Photo Pu	rpose
Uses Observ	ed:							
☐ Swimming	]	☐ Skin diving	☐ SCUBA di	iving	☐ Tubin	g	☐ Water Skiin	g
☐ Wind surfi	ng	☐ Kayaking	☐ Boating		□ Wadir	ng	☐ Rafting	
☐ Hunting		☐ Trapping	☐ Fishing		✓ None	of the above	☐ Other:	
Describe:		, ,, ,	<u> </u>	<del>,</del>	<u>.                                    </u>			<del>,</del>

WBID#	1234
Site #	6

Surrounding Condition	ional					
☐ City/County parks		☐ MDC conservation	on lands □ Urba	an areas	☐ Rural Resi	idential
☐ Campgrounds	☐ State parks	☐ National Forests		ure trails	☐ Stairs/walk	
☐ Campgrounds ☐ Boating accesses	☐ State parks	☐ No tresspass sign		ep Slopes	☐ Other:	Ways
Comments: Baldwin La		ואט נופסטאמסס סואַי		h sinhes	L Oulei.	
Comments. Datewin Ec	1865					
Evidence of Human L		T Dest/plotform	I□ Con	-ing Citon	To Dana awin	
☑ Roads	☐ Foot path/prints			nping Sites	☐ Rope swin	
□ RV/ATV Tracks	☐ Fire pit/ring	☐ NPDES Discharge	e 🗵 Fisni	ing Tackle	☐ Livestock v	watering
comments/other:						
none						
Substrate:						
% Cobble	% Gravel	% Sand	% Silt	% Mud/C	Clay %	Bedrock
30				70	·	
Aquatic Vegatation:						
none						
Water Characteristic		_ · · ·				
Odor:	☐ Sewage	/	☐ Chemical			Other:
Color:	□ Clear		□ Gray		,	Other:
Bottom Deposit:	□ Sludge		☐ Fine sediment			Other:
Surface Deposit:	□ Oil	☐ Scum	☐ Foam	⊻N	None 🗆	Other:

Organization: SES, Inc.

#### Field Data Sheets for Recreational Use Stream Surveys

### **Data Sheet B - Site Characterization (continued)**

Additional Stream I	Morphology:	(Record isolated pools of	r other features identified during	the survey that may	support recreational uses)

	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)
omments: (Please re one	cord any additional comments l	here.)			
	ou have completed all so	ections, checke	d all applicable	boxes, and that the f	form is
Please verify that you complete.		ections, checke		boxes, and that the f	form is

Position: Field Team Leader

																		Disso	lved Ox	ygen		
	Waterbo	ody ID:	1234			Site #:	6									Date:	10/25/07	1		Time:	10:52	
	Estimate	ed Chann	el Incisio	on:	2.0	(m) (hei	ght betw	een low b	ank widt	th and wa	ater)					•	ssolved (				(mg/L)	
						-	Y), Hor	izontal Ac	curacy I	Estimate	(EPE / P	DOP / F	OM)					,,			( )	
		UTM X		0421308	3	. !				5	-	+/-	5.1	(meters)		Di	ssolved (	Oxygen:		(% sat)		
	11	UTM X	:	0421606	)	•	UTM Y:		421105	1	•	+/-	5.1	(meters)			Cnasifi	a Candi			(uC/am)	
	Average	Stream Width: 10 (meters) Length of Survey Segment: 200 (meters)					(meters)		Specifi	e Cona:			(µS/cm)									
			nne Length of Reach)  (20x average stream width)								Wa	ter Temp	erature:		13.2	(°C)						
	Fiel	d Staff:				Aaron B	Ball, Drev	v Dodson														
										Tra	nsect C	ross-Se	ection									
	0	1	0	2	0	13		)4	O	)5	0	6		07	08	3	0	9	1	0	11	1
Station	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1.0	0.55	1.0	0.35	1.3	0.50	1.4	0.90	1.8	1.00	1.7	1.00	1.8	1.00	1.7	1.00	1.7	1.00	1.2	0.80	1.2	1.00
2	2.0	0.95	2.0	0.70	2.6	0.80	2.8	1.00	3.6	1.00	3.4	1.00	3.6	1.00	3.4	1.00	3.4	1.00	2.4	1.00	2.4	1.00
3	3.0	1.00	3.0	1.00	3.9	1.00	4.2	1.00	5.4	1.00	5.1	1.00	5.4	1.00	5.1	1.00	5.1	1.00	3.6	1.00	3.6	1.00
4	4.0	1.00	4.0	1.00	5.2	1.00	5.6	1.00	7.2	1.00	6.8	1.00	7.2	1.00	6.8	1.00	6.8	1.00	4.8	1.00	4.8	1.00
5	5.0	1.00	5.0	1.00	6.5	1.00	7.0	1.00	9.0	1.00	8.5	1.00	9.0	1.00	8.5	1.00	8.5	1.00	6.0	1.00	6.0	1.00
6	6.0	1.00	6.0	1.00	7.8	1.00	8.4	1.00	10.8	1.00	10.2	1.00	10.8	1.00	10.2	1.00	10.2	1.00	7.2	1.00	7.2	1.00
7	7.0	1.00	7.0	1.00	9.1	1.00	9.8	1.00	12.6	1.00	11.9	1.00	12.6	1.00	11.9	1.00	11.9	1.00	8.4	1.00	8.4	1.00
8	8.0	1.00	8.0	0.95	10.4	0.80	11.2	1.00	14.4	1.00	13.6	1.00	14.4	1.00	13.6	1.00	13.6	1.00	9.6	1.00	9.6	1.00
9	9.0	0.70	9.0	0.60	11.7	0.75	12.6	0.85	16.2	1.00	15.3	1.00	16.2	1.00	15.3	1.00	15.3	1.00	10.8	0.85	10.8	1.00
Right Bank	10.0	0.00	10.0	0.00	13.0	0.00	14.0	0.00	18.0	0.00	17.0	0.00	18.0	0.00	17.0	0.00	17.0	0.00	12.0	0.00	12.0	0.00
Feature Type																						
riffle, run, or pool	pc	ool	po	ool	po	ool	pe	ool	po	ool	po	ool	p	ool	poo	ol	po	ol	po	ol	po	ol

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

	Signed:	Aaron Ball	Date:	11.09.07	
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## **WBID# 1234**



Site# 1 Photo ID# 34, Upstream



Site# 2 Photo ID# 32, Upstream



Site# 1 Photo ID# 35, Downstream



Site# 2 Photo ID# 33, Downstream

### **WBID# 1234**



Site# 3 Photo ID# 30, Upstream



Site# 4 Photo ID# 28, Upstream



Site# 3 Photo ID# 31, Downstream



Site# 4 Photo ID# 29, Downstream

## **WBID# 1234**



Site# 5 Photo ID# 26, Upstream



Site# 6 Photo ID# 24, Downstream



Site# 5 Photo ID# 27, Downstream



Site# 6 Photo ID# 25, Upstream